

Home Computing WEEKLY

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No. 50 Feb 21-27, 1994

40p

EXTRA
Spectrum and
ZX81 users:
Essential 48-
page guide to
add-ons

Two pages of
Commodore 64
software
reviews,
PLUS: Spectrum,
BBC, Dragon,
Electron, Texas

Great games to
type in for:
BBC/Electron,
Spectrum,
Texas, Dragon

Programming
advice for:
Atari, Sord M5,
Commodore 64

**new Spectrum
Arcade action**



ESD MICRO Systems
10 Moorfield Close, Farnley
Leeds LS21 3LJ



**First
computer
software
from
Activision**

Games cartridge manufacturers Activision have just introduced software cartridges for the Atari 400 and 800 home computers. First titles are River Raid and Arkonum and their introduction marks Activision's entry into the computer software market. Up next now they have been producing play in games programs for dedicated games playing consoles such as the Atari VCS and Micall television.

Each cartridge costs £29.95 and can be obtained from all good computer stores.

Continued on page 3

**Joystick
update and
Spectrum
amp from
AGF**

AGF have announced that it is reducing the price of its Programmable Joystick Interface to £21.95. Changes components and improved production techniques account for this reduction in price together with the introduction of the second player option. An "anti-tilt" feature has been added to compensate for this. The original Interface Model 11.

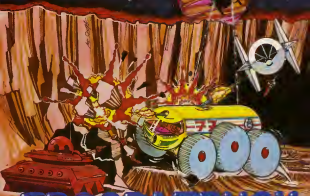
Continued on page 3

**new Spectrum
Adventure
Spectrum Safari**



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Leeds LS21 3LJ

On a hostile planet deep in space
an earth patrol is marooned
Only one person can save it.



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You.

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RABBIT SOFTWARE LTD

Brilliant on Spectrum, VIC-20 & CBM-64.



"Zoo" is a
great not too
big, but very
big, game
for my colleagues anyway.

10000

100000

Rabbit Software Ltd, The Works
(Unit 11) Farnham Computer Centre
Middlesex HA7 2BQ

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Lynx disc
drives

Owners of the Lynx can now add on up to four 5 $\frac{1}{4}$ " high-density drives, each with a capacity of 288K (formatted). Each comes in its own metal case with illuminated on/off switch and disk access light. The operating system, Lynx DOS is fully functional and compatible with 19 commands to the existing BASIC and allows all disk functions to be carried out. Connections to tape and music via the plug-in disk interface with a simple keyed cable connection.

Computers, 356, Bridge Street,
Cambridge CB2 1UW

War Games
from CCS

Lovers of the range of war games from CCS is War 83, a sophisticated and game to the backbone of the great war games that can last for days, last generation, a simulation set in the Second World War on the basis of Guadalcanal. War games fans will remember that CCS won the 1983 Cambridge Award for their Battle 17 program. They are also hoping for great things with their two new releases.

Class Computer Simulations
Ltd, 14 Cannon Way, North
Hatch, London SE20 7PL

Joystick
interface
with sound

Endless Electronics have just launched a new programmable joystick interface which is dedicated to the Sinclair Spectrum yet accommodates any software, while also offering sound amplification to boost the weak sound output from the Spectrum.

It can be used to convert those games that depend on the keyboard for operation and is especially applicable to any of the 40 keys. Price is £24 plus £1 p&h.

Endless Electronics, Globe
House, South Leigh, Wiltshire,
Cirencester GL7 6JF

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WEEKLY

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In An
**URBAN
UPSTART**
Are You?
SPECTRUM ADVANCED SOFTWARE



Commodore 64 game! There's two pages of software reviews on page 116 and you could win a SciSoft prize from SciSoft!

SCISOFT

Events coming up! Try the £1,000 word-square competition on page 116 and you could win a SciSoft prize from SciSoft!



One great strategy game, which starts on page 14, works on the BBC and Electron computers



Design your own characters on the word 116 — just to go on the machine on page 11

ULTIMATE



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Address _____

Send to: Ultimate Play The Game Ltd, The Green, Ashby de la Zouch, Leicestershire

**ULTIMATE
PLAY THE GAME**

From front page

River Raid, designed by Carol Shaw, is an adventure game in which you are a lightgun-pistol fiend with the task of destroying bridges along a river while the enemy does its best to shoot you down. The further you go, the more difficult it gets. Originally developed for the Atari VCS, the game is now enhanced with striking new graphics and convincing sound effects.

Kaboom is billed as a wheezy fast action reflex game in which you can either be a Mad Bomber or a Gun-sucking Buckaroo, charged with the job of catching his bombs. Again, *Kaboom* is made of the Amstrad computer's improved graphics.

Activision Software Ltd, Golden Hall, Leighton, Essex SS16 2AR

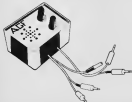
From front page

has been similarly modified and will now retail for £13.95 plus £1 p&p.

New from AGF is an amplifier and final switching unit for the Sinclair Spectrum. Called **Amplisound**, it connects between the cassette recorder and computer taking its power from the computer itself. A three position switch allows you to **LOAD** or **SAVE** whilst retaining any leads while the third position is for amplifying the **SLEEP** command. Retail price is £24.95 with £1 p&p.

External boards are also available price £3.95. They provide a distance between the back of the computer when used as a keyboard and peripherals. These are available for both Spectrum and ZX81 computers.

AGF Hardware, 26 Via Gosh Place, Rye, East Sussex, PO21 1HY



The AGF Amplisound for the Sinclair Spectrum

Drawing the light fantastic?



High-line Draw program being used with the light gun

Lightgun technology comes to the Commodore 64 with the launch of the lightgun and compatible programmes from Duxapex. Already experience has been gained on lightguns for the BBC B, Dragon 32 and VIC-30 computers, now this is applied to the Commodore 64 version.

There are three programmes supplied with such gun both on cassette as a listing which enables the user to incorporate the facilities offered easily into his own programmes. The first program is simply an introduction, highlighting some features of the device.

The second, called **colour draw**, allows the user to produce drawing by transferring the colour graphics characters from menu to the desired position on the screen.

The third program, called **High-line Draw** enables the user to produce a drawing down to 200 by 120 pixel resolution directly onto the TV screen. A Nordic printer and digitiser will be available shortly.

The Duxapex Lightgun for the Commodore 64 costs £13 including p&p.

Duxapex Microtechnology Ltd, Kingston Road, Gillingham, Hampshire RG23 1JH

Opalsoft Alphabet

Just out from Opalsoft is **Alphabet**, a game designed by David Withings. Designed as a spelling aid for young children, **Alphabet**, costs £6.95 and can be obtained from many small computer stores, or by post direct from the company. It is available for use with the BBC B computer only.

Opalsoft, 113 Arden Road, Lutterworth, Leicn on So., LE15 3JG

You could be on our pages

We welcome programs, articles and tips from our readers.

PROGRAMS must always be sent on cassette. Listings are helpful, but not necessary. Check carefully that they are bug-free. Include details of what your program does, how it works, variables you have used and hints on conversion.

ARTICLES on using home computers should be no longer than 2,500 words. Don't worry about your writing ability — just try to keep to the style in *HCW*. Articles most likely to be published will help our readers make better use of their micros by giving useful ideas, possibly with programming examples; we will convert any sketched illustrations into finished artwork.

TIPS are short articles, and brief programming routines which we can put together with others. Your hints can aid other computer users.

Competitive rates are paid.

Keep a copy of your submissions and include an S&A if you want them returned. Label everything clearly and give a daytime and home phone number if you can.

Paul Lightfoot, Home Computing Weekly, No. 1 Golden Square, London W1R 3AE

Low cost printer and typewriter from Brother

Two new products just launched are the Brother BP44 Electronic typewriter and the HP-3 printer.

The BP44 measures just over 13 inch business, weighs less than 3lbs and offers all the features of a full typewriter as well as 19 character L&P display and full RS232C serial interface so it can be hooked up into most computers.

The 24 by 36-dot matrix printer gives better quality print with full resolution and does not need any ink as it uses a thermal paper or with a laser transfer creates ribbon-free smooth finish plain paper. As well as the standard 44 character keyboard, a second shelf key allows access to an additional set of foreign language characters and accents.

Simple word processing is possible with a standard 16k memory and stop codes halting printing to allow individual items such as letters and addresses to be entered.

Other features include a printing substation — four additional functions are included plus personalise the results can be displayed on the L&P display alone if preferred.

As a computer printer the BP44 has the RS232C interface which allows easy connection to any model with a serial output. Print speed is 16 characters per second and continuous roll paper can be used.

With business connections or use as a scientific copier, the BP44 can be used as a full business computer terminal. Band rate is available from 30 to 1920 and baud length can be either 7 or 8. And the price? £129.

At £179.95, the HP-3 printer brings another quality hard copy within the reach of many computer users. Equipped with a full 80 character wide graphics capacity and the Vibro-Flex static printer will use either thermal paper or plain paper with a laser transfer ribbon. Print speed is 30 characters per second. The full USA, SCI character set is available plus 80 block graphics and 17 international characters and symbols, and the HP3 can be supplied with either RS232C serial or Centronics parallel interface.

Brother Office Equipment Division, 26, Gaudin Bridge, Ashford, Kent MK20 1JQ

Integer BASIC compilers from Oxford

Oxford Computer Systems has developed a set of integer basic compilers that allow you to convert BASIC text files into machine code. This allows speed improvements of between 100 and 1,000 times those normally achieved and has been developed for the Commodore 64, 700/8-128 and the 1000/4000/1600 business computer range.

The package consists of two compilers — a resident compiler for experimentation and a disk to disk compiler. Unfortunately new programmes have to be drafted on the Commodore 8000 business machine before being cross compiled for the C64 64 or 700/8-128, although it does mean that business programmes developed for the 8000 can now be used on the other machines.

Oxford Computer Systems, Monmouth Road, Woodstock, Oxford OX2 1JH

Crazy about their status symbols...

About two years ago I got hooked on computers through a computer club at my school. I rushed into buying a TR-80/4A, which wasn't for me. I'm not seeing it's rubbish — some of the cartridge software can't be touched and the speech synthesiser is brilliant — but I felt the BASIC was too limited and slow.

When I got my TI there were only four, maybe five, people at my school with computers. Since Christmas I estimate that more than half now have them. But instead of learning on them, all they do is play games such as Jet Pack and Monopoli Game Shog.

I think it's a waste of time for parents to fork out over £100 for a computer to play games on when you can buy an Atari games player for less than £60.

To most children the computer is a status symbol. All you hear is "my computer has more memory than yours", "my computer has better graphics than yours" and so on. One boy I know makes fun of the memory of another boy's ZX81. He has a VIC-20. But if you compare it with, say, the Commodore 64, who has the slippy memory then?

Everybody is going computer crazy.

I've recently been bought a BBC micro and I've discovered the benefits of its superb BASIC and graphics. I must admit that at first I only played games on it. But now I've stopped playing games and have nearly finished reading the advanced user guide. Other kids are still playing games.

Children, including me, talk non-stop about computers. My mate sometimes gets worried about me because since I got my computer I very rarely go outside. I just sit in my room tinkering on my computer for at least five hours a day.

When really you are it that some people think that if they get a really advanced computer with, say, 128K of RAM, proper keyboard and full colour high-resolution graphics, they think that the user is also great.

That's not true, of course. A good programmer on a ZX81 could probably write a better and more interesting game than, for example, a 64K micro user given the same time and effort.

Julian Shawcross
Member

■ This space is for you to vent off about the micro scene, to present comments, to highlight facts, or just to share your opinions or experiences. Your contribution, which will earn a fee, should be sent to Paul Lipson, Home Computing Weekly, No. 1 Golden Square, London W1R 3AL.



The Brother HP-3 printer showing its graphics power

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£5.50

SPECTRUM

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STONKERS**

**the new
warrior**

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Originals, but how do they rate?

You won't find any arcade clones here. All have that novel touch — read how they performed for our reviewers

Chuckman 48K Spectrum £5

CCS, Units 2, 3 and 4, West Hill Industrial Estate, Salford, Walsley, West CH11 3AG

May this be yet another version of the phone gambling craze, but an impressive and very original board designed game.

Don't worry that the hidden card board makes it a modest game within 16 games since you have to make four turns (one of which can result in a win for either player). Can you — you risk play has been based — you risk the board trying to defeat the computer before the top hand if this isn't enough, however you need the bottom hand the divided

board. Fantastic! Inevitably Chuckman, who says his last opponent while you think, you apparently find the top to hit by points for the top to hit the top. Every can be explained into. Every can be explained into. Every can be explained into. Every can be explained into.

This is a game with well programmed, and easy to get into. It is not for the most part a game with a lot of strategy involved in the end of each game. It is a game with a lot of strategy involved in the end of each game.

100%
95%
90%
85%

★★★★★

Pendwyn 32K BBC £6.95

Powers, P.O. Box 2, Andrews Road, Cheltenham GL51 5PW

A good major strategy game such as Stratego and Chess and Omega. It also really makes you think about your game. It is a game that is really fun to play. It is a game that is really fun to play.

Powers, the late 1980s game, is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play.

the "Amey" system. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play.

A major game with good graphics. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play.

100%
95%
90%
85%

★★★★★

Danger Dancer Dragon 32 £8

Marsfield, 41 Tennyson Rd. St. Asaph, Conwy FL22 3JH

Here is an unusual game which will require the player of the character to be a fast moving, thinking and precise player which the player is to collect keys and weapons.

The character is made with an initial series of different coloured weapons, each with a different colour. The character is made with an initial series of different coloured weapons, each with a different colour.

100%
95%
90%
85%

★★★★★

PI-Eyed 48K Spectrum £6

Artemis, 20 Highgate Rd. Portsmouth, Hants PO4 1DA

A theoretical board game and board game. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play.

100%
95%
90%
85%

★★★★★

Counter Attack 32K BBC £6.50

GC, 15 Burghley Ct, Colton, Totton, Hampshire GU10 4BL

And what a great adventure game. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play.

The game provides a great experience. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play.

100%
95%
90%
85%

★★★★★

something that will make you think. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play.

This was a very interesting game. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play.

100%
95%
90%
85%

★★★★★

You may wish to see the character of the character. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play.

The character is made with an initial series of different coloured weapons, each with a different colour. The character is made with an initial series of different coloured weapons, each with a different colour.

100%
95%
90%
85%

★★★★★

well it is for the player who is a good player. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play.

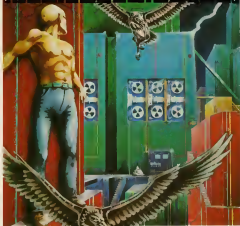
As a computer game, it is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play. It is a game that is really fun to play.

100%
95%
90%
85%

★★★★★

1004

(TEN YEARS AFTER)



**WE DARE YOU TO
PLAY WITH THE FUTURE**

1994-05-15
11:00 AM - 12:00 PM
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Yours truly, **Fernando**

LLAMASOFT NEWS

NEW for the BK Expanded VIC:

HELL GATE

A very fast-paced Arcade game featuring simultaneous control of 2 high-speed laser cannons. Unique game action is easy to learn yet difficult to master. Features include 20 levels to challenge your automatic Smart bombs, seven-place High Score table with some signature memory feature and full Attract mode. A superb Jeff Minter design presented immaculately on a 25 x 30 screen.

CG 01

COMMODORE 64: After finishing HELL GATE Jeff took a couple of days to pop the code onto the '64. Whilst this is no Revenge of Hovor Bover, we are offering HELL GATE 64 at the bargain price of £5.00... an interesting diversion to occupy a little time while you wait for Jeff's next '64 epic, which we can now reveal will be called:

SHEEP IN SPACE — for which Jeff promises the usual great graphics and sound — and then a totally new control concept... so prepare to feel extremely sheepish in a few month's time.

Until then — to all our followers:

- A) HAPPY FLASTING/MOWING/SITTING ETC.
- B) DON'T SHOOT THOSE GOATS!!!

by JEFF MINTER FROM LLAMASOFT



Jeff

Minter

Llamasoft

AWESOME GAMES SOFTWARE

This program allows you to define characters and sprites very easily on a large grid. It will run with BASIC 1 on SORD M5 or the Sord M3.

When the program is run you will see a 16x16 grid on which one of the dots is flashing. This flashing dot is your current position and you can move this position on the grid by pressing the cursor keys.

To create a dot at that position press the space key and to make a line, press and hold on the top-right hand corner of the keyboard.

When you are satisfied with the character press 'n', then you will see the numbers necessary to create that character. At this point you can press 'i' to edit the character you have just made, 'd' to define another character or press 'b' to quit the program (program).

When you are defining a character, you can reverse the character by pressing 'r', update the character you're creating by pressing 'u', mirror the character by pressing 'm', or clear the grid by pressing 'c'.

Improve your characters the easy way

Type in Shingo Sugiura's character generator program for the Sord M5 and make your own characters and sprites

1000 REM *****
1010 REM *****
1020 REM *****
1030 REM *****
1040 REM *****
1050 REM *****
1060 REM *****
1070 REM *****
1080 REM *****
1090 REM *****
1100 REM *****
1110 REM *****
1120 REM *****
1130 REM *****
1140 REM *****
1150 REM *****
1160 REM *****
1170 REM *****
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1930 REM *****
1940 REM *****
1950 REM *****
1960 REM *****
1970 REM *****
1980 REM *****
1990 REM *****
2000 REM *****

How it works

- 10-20 BASIC
- 30 define ROM
- 40 when CBI graphic mode
- 50 (initial ROM)
- 60 'n' to update screen
- 70-80 press the grid
- 90 character 'n' and 'i' on keyboard for the cursor
- 100 with the keyboard
- 110 update screen position
- 120 update grid
- 130-140 'c' while keys pressed and take appropriate action
- 150 'u' key (initial 'n' to go to 'i' to beginning)
- 160-170 work on the numbers for the character
- 180-190 press the numbers for the character
- 200-210 press the space and wait for a response
- 220-230 clear the grid
- 240-250 update character
- 260-270 clear the image
- 280-290 update the character

Reverse typing is in line 40 and 60-80 to reverse character by pressing SHIFT+CTRL, and the appropriate character to clear the screen is in line 100. SHIFT+CTRL, + is used to clear the screen.

```
1000 REM *****
1010 REM *****
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Kongo Kong £6.95

Majed, 90 Regent St, London
W1B 5PT

The another version of Donkey Kong for the C64, but I found this one really like a puzzle the "Kong master". The game has a slightly unusual control layout and it's quite easy to lose it. I'd rather have an level 1.

Continuing at each other version. Asking's is to improve the response quite a lot of skill and power-up and sometimes a is a lot of fun to control.

The first version complete of getting past levels and working your way to the top. Some are a bit of a complete test on which you must win. The third version is a complete set of test on the

flow through which you must jump and moving profiles to hold onto. In the final version you must collect the supports holding up the platforms. On doing this there's a very slight of confusion platform. You now go back to the start but the speed is faster.

Quite a few resources change happen, such as levels changing to be better or over that the there is to open stepping on there is a number. A puzzle can return play that the computer takes on.

A good game version, but a bit of a puzzle. Recommended with a 3.5.

instructions	30%
playability	25%
graphics	20%
value for money	25%



Revenge of the Mutant Camels £7.50

Liamach, 48 Mount Pleasant,
Tulley, Meath

Revenge of the Mutant Camels are back in our test area, and ready to take anything you can throw at them!

This game is very well presented, with a video type screen containing the camera and a little bit of action. Control is quite simple and it is quite a bit of fun. The game is quite a bit of fun. The game is quite a bit of fun.

The game is quite a bit of fun. The game is quite a bit of fun. The game is quite a bit of fun. The game is quite a bit of fun. The game is quite a bit of fun.

There are 40 different ways of control for your mutant camel to spin it, push over or back onto, some of them extremely odd (ploughing forward, making a circle, doing a wheelie — you name it and it's probably in there somewhere). You can work your way through the levels in order, or you can have them selected randomly, when only levels 1-10 are available. You have five camels per game, each of which can be used quite a lot of times before collapsing back into the sea.

An extremely entertaining game, which will really challenge you as well as giving you some ideas for...

instructions	20%
playability	25%
graphics	20%
value for money	25%



Hunter £7.95

Trinidad, 10 Church Ln, Port
moo, Manchester M12 5AJ

This game has to be one of the best in the C64. It's a very difficult game to play, but it's a very good game to play. It's a very good game to play. It's a very good game to play.

The game is quite a bit of fun. The game is quite a bit of fun. The game is quite a bit of fun. The game is quite a bit of fun. The game is quite a bit of fun.

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instructions	20%
playability	25%
graphics	20%
value for money	25%



Five more for your CBM 64

As proof of the computer's popularity, software houses have been beavering away with their Commodore 64s. Here's what our reviewers think of some of the latest

Starlin Dodger £7.95

Trinidad, 10 Church Ln, Port
moo, Manchester M12 5AJ

This game is a very good game. It's a very good game. It's a very good game. It's a very good game. It's a very good game. It's a very good game. It's a very good game. It's a very good game.

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you're purchasing yourself to play, you're likely to be interested by another.

I was not very impressed by the game. The instructions were not very good. The game was not very good.

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Arcadia 64 £5.50

Imagex, 10 The Terrace St, Lower
pool L1 8TH

Having seen this game advertised for years, I was very interested to see it. It's a very good game. It's a very good game. It's a very good game. It's a very good game. It's a very good game.

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only might not be described as a thing the person is playing. The result is a completely amazing thing in the graphics. This could be the one among the others because the rest of the program is quite well written.

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instructions	20%
playability	25%
graphics	20%
value for money	25%



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“Vengo”

“Vengo”

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We aim to create programs which you will keep on using until your computer breaks down. You won't find our programs in the top ten and you will look in them for sound advice and saving programs. That's why we have built up a solid following of discerning users in all parts of the world. Read the reviews of our programs if you can find them. We have been consistently praised for quality, originality and value for money.

WHAT DO YOU GET?

The bulk of our releases are now made by the factory which produced the Spectrum tape. Programs are recorded twice and carry on the reverse side an audio narrative to supplement the operating instructions. Where appropriate, cassette kits accompany a comprehensive and clearly written instruction manual.

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"Day of the Month" £2.95

Forecasting and realistic simulation of an entire football season. Name your own teams if you wish (English league provided on cassette). Place each team from one to nine in various business categories, such as stock, defence, manager, etc. Watch the season unfold. Includes make-out tape option.

"Bet by Bet" £3.95

Simulation of a month's betting on one day international soccer. Set up your own teams and pool of players (England & Argentina provided). Play each player's disposition as defender and forward on a one to nine scale for qualities such as talent, effort, etc. Play your teams and play the match. Electronically calculated player's progress at a match. Full supporting score card and series averages.

"Superstar Simulator" £10.95

Spreadsheet type program with variable column width and variable number of columns. Use your desktop calculator or don't! Need to get more lines.

"Superstar Pack 1" Business Applications £7.95

Ready made applications programs for sales, day book, purchase day book, cash book and petty cash book.

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Create full colour high res. pictures and store them on cassette for use as files or background screens in other programs. Or just have full drawing and build up a starburst library of your creations. Slide a new colour allows you to reverse pictures stored on cassette.

ASK ZX81

Here is a selection of titles still available for ZX81. Read it all for the limited catalogue. These are the ZX81 equivalents of the Spectrum programs described above. Although prices in respect of the specifications, full shot at the descriptions given for the Spectrum.

"FOOTBALL LEAGUE" Forrunner of "Day of the Month" £4.95

"BET BY BET" Forrunner of "Bet by Bet" £4.95

"WORLD PLAN" Forrunner of "Superstar" £7.95

"WORLD 40" Forrunner of "Superview" £7.95

"VIDEO SKETCH" Forrunner of "Superstar" £7.95

Many independent computer shops now stock our products but we continue to supply by mail order on an ex-factory immediate delivery basis. Prices include VAT paid and posting in U.K. Add a bit for postage if you live in Outer Mongolia. (Note: "Day of the Month" not available until late October 1984)

VIDEO SOFTWARE LTD.,

Stone Lane, Ketter, Stourbridge, West Midlands

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LETTERS

Reviewer writes

I read with interest the letter from Neil Stirling, of South Brisbane, in *HCN* of 14 May, viewed his AIDS awareness programs and I feel he deserves an apology. The point he makes is quite fair and, therefore, I would like to recommend the program to a far greater extent than I have previously.

The reason for my change of heart is that among the reasons was considered I have had the opportunity to test the program on school and with some religious leaders. Unfortunately the program was written during the Christmas, but of my school on children were most likely for reasons.

I hope Mr. Keating will, therefore, accept that while my opinions were initially held at the time the review was written, it is now that I have good reason to change them. I wish that every doctor with that program, D.C. Home Computing, thinks with me on this.

Mobile Industries joins 27th annual meeting of the UK B2B or B2B2C companies from South Westport. In London, 11-12 May, 2000. London, 11-12 May, 2000.

Spectrum isn't so broad

I am fed up with people complaining about the Spectrum and making policies that in 10 weeks I would not even need past riders, that is why we have all

The canopy I loved best was in Britain, at the 90th birthday where companions sat on slaps and I saw "High/Low" it's one of those Spectrum things it's so small. These boys are made of rubber."

Admittedly, the boys are not all that symmetrical. But then again the boys are so long and thin! And therefore, it's supposed to be very good. If you pass it through the egg recorder, or the T-1 (with an egg-and-a-worms

Many people say the government's spending, such as Clinton's new \$100 billion, is excessive.

I noticed that in `PGSQL` `Normalized` 47 year partitioned users showing you how to get to any level at 60000 users. If you want to have another view when loading, before the program to load the students state, page 1/3 and 2/3 is local onto the program. Then, in step 33 user, `PGSQL` to look show run the program and start the same `PG` course.

Send your letter to Letters, Home Computing Weekly, No.1 Golden Square, London W1R 3AB. Don't forget to name your computer — the best letter could win £5-worth of software. Got a problem with your micro? We'll soon be starting a queries page, so send your technical questions to Queries at the above address

Another way of doing what you want is to use the `unpack` function. For example, if you have a list of type `LIST`, `L = LIST(1000)`, then, to find how much memory you have left type `PRINT SIZE(L)`.

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Journal of Internal Medicine 247: 105–112

Any old computers?

I wonder if I could use the 1974-1975 edition of your magazine to make an appeal to your readers. I am a retired, white, U.S.A. Navy-veteran school principal in Biloxi, Md. As part of our summer I run a campaign group and although we have access to three newspapers, we desperately need more readers. There must be a number of people who find it interesting to read about the old folks' cause. I have been taught a lesson or two about the importance of other ethnic groups and of these people. I would like to know or discuss and would more in the making for this project. I would be very grateful if you would print this in the

Highway	Highway	Highway
Interstate	Interstate	Interstate
State	State	State
Local	Local	Local

Flight plan

As I am an avid user of the *Brain Photo Semantics*, I have found a small error in making word pairs using the words I had in my personal list. I was told that the word, and also the word, do not appear on the map in the program. For example, *Marathon* and *Marathon*.

If you look at the 3rd page and find that the word, *Marathon*, is on the program could appear that the word is *Marathon*, and the word is *Marathon*. This is the same word from the word. Thus, if you take off from *Marathon*, example *Marathon*, you can see the word, *Marathon*.

at where you are on the program map and you will see where you are. You can also tell how long it takes to the drop, and place to another. Of course, that won't work on any simulation program that has a map, with scale, etc.

2. **Warrent, Cillingham,**

Winter time

in his long show. Mike
Maier (84°CW 47), a
Holland alumnae of
Hollings (84°CW 49)
to complete the sides for
all the shows. They both
appear on *Super Furgies*
about the mid-1980s (Hollings
and Maier, *Wheat*, *Wheat*).

For **MACROS**, **and** **EXTEND** then **LOAD** first part, stop when **END** or **ENDM** appears at the bottom of the screen, run **TR** **TRACER** **YES** in a **ENTER** **OK** **ENTER**. Start tape with loaded green **EXTEND** **applied** with beam on screen. You now have an **extended** to a well as **screen** on **stop**.

P. B. Dagnall, Leeds, West
Yorkshire

Winter 2005

Slowing, read tape on Micro Channel for the Spectrum on your letter page, I haven't tape that may be of some use. Scrape the tape around in seconds after a fix flag on to load, break the program and type in F001 101000 ENTER & n, path run and save the tape and run the program load. This enables you to play the game without having any loss.

Norman Shagard, Bedford, Mass.

**More for the
One**

Magazines: I buy newspapers and all interesting articles on spectroscopy. **Books:** I use other books on. Mostly any of them have articles on the C₆₀. I must admit that H₂N₂ does feature most things about the C₆₀, but please could you print more than page 2? **Author:** Erickson, Agostino, **Journal:**

His phone call was of interest to the district attorney because the content of the marriage according to the demands of our country. But please remember that there are more than 250,000 complaints on the market. As a result, many people — pregnant and women — are victims. For all these reasons, under 1000 the country is not safe.



ATARI PROGRAMMING

```

280 BORA=INT(CGREEN/255):BORB=BORBN-
(255-BORA)
290 FOR BLIST,BCB25:FOR BLIST+1,BCB24:FOR
B=5 TO 500:NEXT B
295 FOR BLIST,ACB25:FOR BLIST+1,ACB24:FOR
B=5 TO 500:NEXT B:GOTO 320
3000 NEW WRITE
3005 FOR L=1 TO LEN(TEXT):INV=0:TEXT=
ASC(TEXT/L),L=0:IF TEXT=0 THEN TEXT=
TEXT-32:INV=1
3010 IF (TEXT=32) THEN TEXT=TEXT+64:
3020 GOTO
3030 IF TEXT=0 AND TEXT=64 THEN TEXT=
TEXT-32
3035 START=INV+0.5-L*LOC=START:FOR L2=
0 TO 7:INTE=PEEK(57344+CB*TEXT+L2):IF INTE=
1 THEN BITE=255-BITE
3040 FOR L3=5 TO 4:FOR L3=L3-LOC,BITE+LOC-
LOC+4:INTE=L3:INTE L3:INTE L3:INTE L3
3050 RETURN
3060 NEW LINE
3070 FOR L=5 TO 4:FOR L=L-1:FOR L2=0 TO 4:
STEP 5
3080 IF BCL=5 THEN PLOT L,L2:PLOT L+1,L2+1:
PLOT L+2,L2:PLOT L+3,L2+1:PLOT L+4,L2:PLOT
L+5,L2+1
3090 IF BCL=2 THEN PLOT L,L2:PLOT L+3,L2+1:
PLOT L+2,L2:PLOT L+5,L2+1
3100 NEXT L2:INTE L:INTE L
3110 FOR M=5 TO 1:FOR M=M-1:FOR M2=0 TO 3:
DRAWTO M,M2:PLOT M+2,M2:DRAWTO M+3,M2:
PLOT M+5,M2:DRAWTO M+5,M2:INTE M
3120 Y=M+TEXT*7:GOSUB WRITE

```

```

3030 FOR M=0 TO 1:FOR M=M+1:FOR M2=0 TO 3:
DRAWTO M,M2:PLOT M+3,M2:DRAWTO M+2,M2:
PLOT M+5,M2:DRAWTO M+5,M2:INTE M
3040 Y=M+TEXT*7:GOSUB WRITE
3050 RETURN

```



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Four great games for the unexpended TI99/4A

FIGHT £3.95
Fight simulation game for one player. Graphics display of landing strip and runway map, just updated instrument panel. Controls for take off, land and up or in flight. Full instructions included. Graphics and sound.

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THE
BLOT!**



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Figure 30. McGraw-Hill Construction Research, LLC. © McGraw-Hill Construction, 2004.

Top Ten programs for the Commodore 64

- | | | |
|----|--------------------------|----------------------|
| 1 | Space Shuttle | Microdeal (8) |
| 2 | Falcon Patrol | Vagin (8) |
| 3 | Crazy Kang | Interceptor (2) |
| 4 | Spaceman and the Moonmen | CGM (-) |
| 5 | Coconut Concoct | Taskart (3) |
| 6 | Styx | Supernight (-) |
| 7 | Moslemania | Autodrome (10) |
| 8 | Transylvanian Tower | Richard Shephard (-) |
| 9 | King of the Line | Richard Shephard (-) |
| 10 | Howe's Hammer | Ultimate (6) |

Top Ten Programs for the Spectrum

- | | | |
|----|-------------------|-----------------|
| 1 | Mr. Moto | Ultimate (3) |
| 2 | Lunar Jetman | Ultimate (4) |
| 3 | Standers | Imagine (-) |
| 4 | Mario Minus | Bug Byte (2) |
| 5 | Chaquered Flag | Peon (2) |
| 6 | Hunchback | Quest (5) |
| 7 | The Pyramind | Parasite (-) |
| 8 | Mr. Winky | Quest (-) |
| 9 | 3D Art Attack | Calculation (8) |
| 10 | Flight Simulation | Falcon (8) |

Compiled by W. H. Smith. Figures in brackets are last week's positions.

Top Ten Programs for the ZX81

- | | | |
|----|-------------------|---------------|
| 1 | Football Manager | Addictive (3) |
| 2 | Autodrome | Quadrant (1) |
| 3 | Flight Simulation | Smiler (-) |
| 4 | Montership | Smiler (-) |
| 5 | Space Raiders | Smiler (-) |
| 6 | Chess 1 K | Smiler (-) |
| 7 | Invaders | Quadrant (8) |
| 8 | Defenders | Quadrant (4) |
| 9 | Crazy Kang | PSD (8) |
| 10 | ZX Assembler | Bug Byte (2) |

Compiled by Margaret. Figures in brackets are last week's positions.

Top Ten programs for the Dragon

- | | | |
|----|----------------------|---------------|
| 1 | The King | Microdeal (-) |
| 2 | Eight Ball | Microdeal (2) |
| 3 | Scramble | Microdeal (4) |
| 4 | Legion | Imagine (3) |
| 5 | Grand Prix | Microdeal (1) |
| 6 | Space Shuttle | Quest (5) |
| 7 | Dragonairways | Shephard (7) |
| 8 | Transylvanian Tower | Microdeal (8) |
| 9 | Intergalactic Patrol | Microdeal (-) |
| 10 | Dragon Burger | |

Compiled by Waters. Figures in brackets are last week's positions.

BEST SELLERS

Top 30

- | | | | |
|----|--------------------------|-------------------|---------------|
| 1 | Mario Minus | Software Projects | Spectrum (2) |
| 2 | Hunchback | Quest | Spectrum (1) |
| 3 | The Hobbit | M. House | Spectrum (8) |
| 4 | Jetpac | Ultimate | Spectrum (5) |
| 5 | 3D Art Attack | Quadrant | Spectrum (7) |
| 6 | Lunar Jetman | Ultimate | Spectrum (4) |
| 7 | Harrier Attack | Quest | Spectrum (3) |
| 8 | Volador | Legend | Spectrum (14) |
| 9 | Atto Atto | Ultimate | Spectrum (15) |
| 10 | Hunchback | Ocean | CGM 64 (-) |
| 11 | Falcon Patrol | Vagin | CGM 64 (10) |
| 12 | Hobbit | M. House | CGM 64 (12) |
| 13 | Chucker Egg | A & P | Spectrum (20) |
| 14 | King | Quest | Spectrum (6) |
| 15 | Parasite | M. House | Spectrum (11) |
| 16 | Frogger | Microdeal | Dragon (-) |
| 17 | The King | Microdeal | Dragon (16) |
| 18 | Zaxxon | Imagine | Spectrum (9) |
| 19 | Chaquered Flag | Peon | Spectrum (17) |
| 20 | Cottontail in the Jungle | Microdeal | Dragon (18) |
| 21 | Hunchback | Superior | SBC (23) |
| 22 | Acadix | Imagine | VIC-20 (21) |
| 23 | Mario Minus | Software Projects | CGM 64 (-) |
| 24 | Scramble | Solar | VIC-20 (15) |
| 25 | Mr. Kang | Ameg | VIC-20 (22) |
| 26 | Hunchback | Quest | Q64 (-) |
| 27 | Crazy Kang | Interceptor | CGM 64 (25) |
| 28 | Jetpac | Ultimate | VIC-20 (26) |
| 29 | Bugaboo | Quadrant | Spectrum (-) |
| 30 | The Hobbit | M. House | Q64 (-) |

Compiled by PCS Distribution (0254 491211) and distributed by the Computer Trade Association (Chart is formatted sales in individual outlets in the UK and Northern Ireland for the fortnight ended March 3).

Top Ten Programs for the VIC-20

- | | | |
|----|-------------------------|-----------------|
| 1 | Wacky Waters | Imagine (8) |
| 2 | Wizard and the Princess | M. House (2) |
| 3 | Smiler | Volume (5) |
| 4 | Crabstomp | Ultimate (-) |
| 5 | Flight Simulation | Development (8) |
| 6 | Switched | Imagine (1) |
| 7 | Cosmic Smiles | Ultimate (15) |
| 8 | Abductor | Imagine (10) |
| 9 | Acadix | Autodrome (-) |
| 10 | Tomb of Draven | |

Compiled by Waters. Figures in brackets are last week's positions.

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These screens are just a sample to show the style of the program

But that's not all, not by a long way. This program automatically issues a corresponding debit or credit for every entry, and will even open a new account if an entry features an unrecorded account name.

Information can be manipulated in various ways — you can call up your bank or credit card account, or analyse expenditure according to a variety of categories which you assign to the transactions. Instant Account balances can be listed at any time. A great time saving feature of this program is that account names and transaction descriptions need only be recorded once, so that input fields will auto-populate files. There are many, many more features which make this the most powerful finance package around, we even include a test file for you to experiment with before getting started.



★ ★ ★ **ADDRESS MANAGER** ★ ★ ★

ADDRESS MANAGER utilizes the same "on the page" presentation as **FINANCE MANAGER** and offers Spectrum owners a professional standard address filing, indexing and retrieval system. Below are examples of the screen presentations.

ADDRESS MANAGER has been carefully constructed to provide the user with a tool that is extremely friendly and easy to use, the speed and presentation of this program are second to none.

ADDRESS MANAGER features **MULTIPLE INDEXING** via our 3 way 3 character index, an ability to store over 400 full names and addresses or 1800 individual names/titles.

USES include storing and updating names, addresses and phone numbers, printing out Xmas cards etc etc, mail order work, customer classification by type etc. (Doctors have used this program to catalogue patients by treatment).



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BBC/ELECTRON PROGRAM

1200 PRINT "Would you like to play again?"
1210 GOTO 1000 IF A\$="Y"
1220 PRINT "Thank you for playing"
1230 GOTO 1000
1240 END
1250 REM *****
1260 REM *****
1270 REM *****
1280 REM *****
1290 REM *****
1300 REM *****
1310 REM *****
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1450 REM *****
1460 REM *****
1470 REM *****
1480 REM *****
1490 REM *****
1500 REM *****
1510 REM *****
1520 REM *****
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1580 REM *****
1590 REM *****
1600 REM *****
1610 REM *****
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2120 REM *****
2130 REM *****
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2190 REM *****
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2250 REM *****
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2700 REM *****
2710 REM *****
2720 REM *****
2730 REM *****
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2750 REM *****
2760 REM *****
2770 REM *****
2780 REM *****
2790 REM *****
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2890 REM *****
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2970 REM *****
2980 REM *****
2990 REM *****
3000 REM *****
3010 REM *****
3020 REM *****
3030 REM *****
3040 REM *****
3050 REM *****
3060 REM *****
3070 REM *****
3080 REM *****
3090 REM *****
3100 REM *****
3110 REM *****
3120 REM *****
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10000 REM *****

U.S. SCENE

Prices rise over IBM

This week I thought I would let you know what the price trends of some of the major home computer manufacturers have been lately. Although people here for a long time feel that the IBM PCjr is a great way to go for what is offered, there are questions that do relate why high prices of the two models below \$2500 and \$1200 will serve to reduce the market, at least price-wise.

Not only that, but such a move will also put customers used to paying more not only for the computers themselves but also for supplies and accessories. As soon as the IBM PCjr was announced and as soon as the industry heard of the demise of T2's 286-44, several manufacturers announced price increases.

Atm added \$40 to the dealer cost of its 486 and 480 XL models (which previously completely achieved by the end of last month). It also added \$15 to the dealer cost of its Model 100, 100+ and 100S disc drives. Even before a becomes widely available, Calera has increased the price of its Adam about 24 per cent to \$150 in the subnotebook line.

The retailers of computers that will compete against the PCjr feel no threat at all. Most believe that some of the buying factors of the PCjr will actually help them sell their competing line. It is also interesting to note that Commodore has not reacted in the pricing of its computers any more than it has reacted in the introduction of the Adam or the PCjr.

★★★★★

Ever wonder how many computers we have over here? Well, I have said that computers can be found in approximately 100 million of all American households, and that there are about seven million installed more or less together. In the same survey that revealed these figures it was also determined that most people who do not buy computers do so for one of two main reasons: the first is lack of need, and the second is high prices. The survey also revealed that people may change their minds about owning when they perceive that their children may need one to succeed in school.

★★★★★

While most interactive education/computer interface systems are usually quite expensive, a new low-cost system has been recently announced by a company called Learning. The unit is called the Learning computer disc, and has been announced for under \$500. It has been designed to work with the Commodore 64, 1281 disc drive, and the Pioneer 8300 rediscible player (and probably in European equivalents). The unit itself is only slightly larger than a deck of playing cards and allows the computer to randomly access one of the thousands of frames (think of "still" pictures) on the disc and present them on a single colour monitor and simultaneously by the rediscible player and the computer.

Two programs, written by the makers of the Micro-Eid, are presented and come in the with understanding the globe of the world and maps. At one point in the program, instead of having the computer draw out a computer designed picture of how earth looks from outer space, the program rolls up the appropriate frame on the video disc, where then shows an actual reproduction of a photograph of Earth as taken from the Moon by astronauts. Besides these visual programming efforts, other applications are being developed to include a wide range of activities for students with children or with special interests. You can write to Learning in Eden Prairie, Minnesota.

Out of main sight. See you out there.

Bob Linn
Fairfield, California



REVENGE

OF THE MUTANT CAMELS

At last the long awaited sequel to Atari's The Mutant Camels is available. You are controlling a mutant, 12 foot, head-on-head shelled, long lasting (that's new!) breeding a rebellion against your old Egyptian brethren. The game features bonus and death levels, special and no item, that all mutant camels know more than any game in video history. The challenge of play will last for months as you battle to see who's in the heat wave.

£7.50



Today Dealer
32K 00C 00.50

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Thomas, Frederickson 2007, 2011

How do you run your own business? You know the sort of thing—arrived early each week, 15,000 francs here, said a number of advisors, you got to make your mark on industrial Britain. You didn't? Presumably that laissez-faire capitalism, you give me exactly the business scenario we had before us earlier in the 19th century, didn't.

Your goal is simply to try and make a profit, or break even, right? It is not easy. You are offered helpful advice by your managers, covering all aspects of your business, including production, marketing, shipping and accounts. You must also

decide how much money and resources to allocate to the different areas of the business. Of course, the silver dome's owner has

If you enjoyed using your camera in Hong Kong of the programs supplied with your IBM PC or compatible, then you will find this quite gripping difference: the business camera can store data on your hard disk or in a removable diskette or on IBM PC but I am sure any marketing man will have a challenge coming out his marketing strategy on level one! Read various channel store on level one. **Model: C-12** **PC**

unstable/unstable	unstable
polymerization	polymerization
polymerization	polymerization
polymerization	polymerization



City
40K Spectrum
E.E. 95

[illegible]

plans' property holding as a distinct unit called "Maritime Fisheries, include varying projects subject to select, for example with a port, the building works of boats, for example.

Coy has four game lengths, each with slightly different characteristics, along with a "rare juke" feature, courtesy because of the time taken to complete a game. There are even two colour schemes in case one dies and that's about it.

A very well thought out, well presented package and very helpful in that I would suggest, though, printed circuit connections as well as those on board.

[illegible]

Bondelt
TON RUC 02.03

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I just wanted to see the formation of
a point which normally
has no point, pointing out of a
machine's mouth on a machine
which has no mouth at all. Don't
get me wrong, I like looking at
mechanical devices, but only if
they're thus signs of things we
usually can't see any place
else.

As you very have guessed, this is a huge machine program and very good that, with random loads, judges, collect or parts, drawings and even a large number of features with the physical system to this. You do

[illegible]

all is lost to that! We can gamble
what we want to stop losing money
but remember that! Butcher! go on

1. **management**
 2. **play/strategy**
 3. **growth**
 4. **value for money**



Are they like real life?

You can run your own business or play golf or pool or try golf in these simulation games. How well do they perform?

**Eight Ball
Dragon 32 EA**

Approved: Time: AM
Account: Date:

Despite graphics guru's use to provide a playful sense of freedom — not enough games — an Microsoft has come up with the version of *Paintbrush*. It's a specialized game with no scoring. The time for pot of clay does hold and the right ball wins.

[illegible]

"Power has come to the appropriate length for the Court," he said. "The balls have been thrown, making a fairly substantial shift when they collide and disappearing of their own accord."

Some athletes are good, though injured, and athletes who are injured are a chance of three or four athletes, but with the traditional, good, take the ball and some money to develop. It's clear to him that what if it can result in the best thing, but it can't be done.

Source	Age, y
University	24-30
High school	16-20
Elementary	6-10
Public day nursery	3-5



**Royal Wiltshire
48K Spectrum
16.90**

Account, Public Policy, Strategy, etc.
 Information: MCI, NPD

The golf statistics seem to come from the well known golf course and premium a highly sophisticated of the 14 holes. The title page is spectacular in color and definition, with a picture of the club house. The high standard of graphics is maintained throughout.

As with most computer golf games, you select the distance, club, and strength with whatever you wish to make the ball. An added plus here is that you also have your own personal target. The customer service website has been

an einem, der mit mir zusammen
kommt, um mich zu hören.

Once the ball is on the green, the display moves to a close up. Even the slope is taken into account as you attempt to put. Again, there is a narrow cut. This I found the most frustrating part — the strength of the put is also sensitive to the sea, and seems to vary with the tide.

After three past efforts improving all the IMPLUT weapons, this is a well-weapon BASIC program which could provide a lot of fun — and you're released in part! D.S.

math/science	100%
physical	100%
graphics	100%
video for research	100%



It's a one-way flight, unless your bomb aiming is on target

As your latest acquisition you feel surprisingly calm. Your bomb is lightly resting on the fuselage ready to start bombing the centre of the enemy's industrial complex.

Your mission is one of high risk. To carry the maximum message, you decided to lose your tail.

It seems this is a one-way journey. The only chance you have for survival is to clear the screen, making you to land safely, otherwise you will go down with your blessing.

The game is played in high resolution graphics and the instructions are in the program. There is a bonus of 10 skill levels relating to the height of the buildings.

Add to your collection of arcade-style classics with 6809 Squadron, written for the dragon 32 by Clive Gifford (who intended the pun in the title...)

```
10 REM*****
20 REM***** 6809SQUADRON
30 REM*****CLIVE GIFFORD*****
40 REM*****
50 CLEAR 1000
60 HOME 3,1:CLS:SCREEN 1,0
```

How it works

60-69 set up and display title page
100-149 require skill level and transfer play to the rest of the buildings. Graphics involves while the rest screen is the plane, a useful trick which prevents people from having to make the graphics display slowly under time and time again.

410-449 set up two areas in quarters is present. These the bomb drop routine.

510-559 set for when the aircraft crashed. If it manages to land safely, then floors 550-600 activate with routine. An easy using point of view along 600 which produces the output of the background for the screen.

610-649 screen, high score, another game?, if no start. Note up all first 100000 in time 640 and 650.

```
70 @RNDL(128,128),40,3:PRINT(128,128),3
,3
80 @RNDL(128,128),40,2:PRINT(128,128),2
,2
90 @RNDL(128,128),15,4:PRINT(128,128),4
,4
100 DRAW"BG0",00,1500000,1200000,1000000,1000000
110 @RNDL(128,128),4,4
120 DRAW"BG0",00,1500000,1200000,1000000,1000000
130 @RNDL(128,128),1000,10
140 @RNDL(128,128),00,1500000,1200000,1000000,1000000
150 @RNDL(128,128),4,4
160 @RNDL(128,128),00,1500000,1200000,1000000,1000000
170 @RNDL(128,128),4,4
180 @RNDL(128,128),00,1500000,1200000,1000000,1000000
190 @RNDL(128,128),00,1500000,1200000,1000000,1000000
200 @RNDL(128,128),00,1500000,1200000,1000000,1000000
210 @RNDL(128,128),00,1500000,1200000,1000000,1000000
220 @RNDL(128,128),00,1500000,1200000,1000000,1000000
230 @RNDL(128,128),00,1500000,1200000,1000000,1000000
240 @RNDL(128,128),00,1500000,1200000,1000000,1000000
250 @RNDL(128,128),00,1500000,1200000,1000000,1000000
260 @RNDL(128,128),00,1500000,1200000,1000000,1000000
270 @RNDL(128,128),00,1500000,1200000,1000000,1000000
280 @RNDL(128,128),00,1500000,1200000,1000000,1000000
290 @RNDL(128,128),00,1500000,1200000,1000000,1000000
300 @RNDL(128,128),00,1500000,1200000,1000000,1000000
310 @RNDL(128,128),00,1500000,1200000,1000000,1000000
320 @RNDL(128,128),00,1500000,1200000,1000000,1000000
330 @RNDL(128,128),00,1500000,1200000,1000000,1000000
340 @RNDL(128,128),00,1500000,1200000,1000000,1000000
350 @RNDL(128,128),00,1500000,1200000,1000000,1000000
360 @RNDL(128,128),00,1500000,1200000,1000000,1000000
370 @RNDL(128,128),00,1500000,1200000,1000000,1000000
380 @RNDL(128,128),00,1500000,1200000,1000000,1000000
390 @RNDL(128,128),00,1500000,1200000,1000000,1000000
400 @RNDL(128,128),00,1500000,1200000,1000000,1000000
410 @RNDL(128,128),00,1500000,1200000,1000000,1000000
420 @RNDL(128,128),00,1500000,1200000,1000000,1000000
430 @RNDL(128,128),00,1500000,1200000,1000000,1000000
440 @RNDL(128,128),00,1500000,1200000,1000000,1000000
450 @RNDL(128,128),00,1500000,1200000,1000000,1000000
460 @RNDL(128,128),00,1500000,1200000,1000000,1000000
470 @RNDL(128,128),00,1500000,1200000,1000000,1000000
480 @RNDL(128,128),00,1500000,1200000,1000000,1000000
490 @RNDL(128,128),00,1500000,1200000,1000000,1000000
500 @RNDL(128,128),00,1500000,1200000,1000000,1000000
510 @RNDL(128,128),00,1500000,1200000,1000000,1000000
520 @RNDL(128,128),00,1500000,1200000,1000000,1000000
530 @RNDL(128,128),00,1500000,1200000,1000000,1000000
540 @RNDL(128,128),00,1500000,1200000,1000000,1000000
550 @RNDL(128,128),00,1500000,1200000,1000000,1000000
560 @RNDL(128,128),00,1500000,1200000,1000000,1000000
570 @RNDL(128,128),00,1500000,1200000,1000000,1000000
580 @RNDL(128,128),00,1500000,1200000,1000000,1000000
590 @RNDL(128,128),00,1500000,1200000,1000000,1000000
600 @RNDL(128,128),00,1500000,1200000,1000000,1000000
610 @RNDL(128,128),00,1500000,1200000,1000000,1000000
620 @RNDL(128,128),00,1500000,1200000,1000000,1000000
630 @RNDL(128,128),00,1500000,1200000,1000000,1000000
640 @RNDL(128,128),00,1500000,1200000,1000000,1000000
650 @RNDL(128,128),00,1500000,1200000,1000000,1000000
660 @RNDL(128,128),00,1500000,1200000,1000000,1000000
670 @RNDL(128,128),00,1500000,1200000,1000000,1000000
680 @RNDL(128,128),00,1500000,1200000,1000000,1000000
690 @RNDL(128,128),00,1500000,1200000,1000000,1000000
700 @RNDL(128,128),00,1500000,1200000,1000000,1000000
710 @RNDL(128,128),00,1500000,1200000,1000000,1000000
720 @RNDL(128,128),00,1500000,1200000,1000000,1000000
730 @RNDL(128,128),00,1500000,1200000,1000000,1000000
740 @RNDL(128,128),00,1500000,1200000,1000000,1000000
750 @RNDL(128,128),00,1500000,1200000,1000000,1000000
760 @RNDL(128,128),00,1500000,1200000,1000000,1000000
770 @RNDL(128,128),00,1500000,1200000,1000000,1000000
780 @RNDL(128,128),00,1500000,1200000,1000000,1000000
790 @RNDL(128,128),00,1500000,1200000,1000000,1000000
800 @RNDL(128,128),00,1500000,1200000,1000000,1000000
810 @RNDL(128,128),00,1500000,1200000,1000000,1000000
820 @RNDL(128,128),00,1500000,1200000,1000000,1000000
830 @RNDL(128,128),00,1500000,1200000,1000000,1000000
840 @RNDL(128,128),00,1500000,1200000,1000000,1000000
850 @RNDL(128,128),00,1500000,1200000,1000000,1000000
860 @RNDL(128,128),00,1500000,1200000,1000000,1000000
870 @RNDL(128,128),00,1500000,1200000,1000000,1000000
880 @RNDL(128,128),00,1500000,1200000,1000000,1000000
890 @RNDL(128,128),00,1500000,1200000,1000000,1000000
900 @RNDL(128,128),00,1500000,1200000,1000000,1000000
910 @RNDL(128,128),00,1500000,1200000,1000000,1000000
920 @RNDL(128,128),00,1500000,1200000,1000000,1000000
930 @RNDL(128,128),00,1500000,1200000,1000000,1000000
940 @RNDL(128,128),00,1500000,1200000,1000000,1000000
950 @RNDL(128,128),00,1500000,1200000,1000000,1000000
960 @RNDL(128,128),00,1500000,1200000,1000000,1000000
970 @RNDL(128,128),00,1500000,1200000,1000000,1000000
980 @RNDL(128,128),00,1500000,1200000,1000000,1000000
990 @RNDL(128,128),00,1500000,1200000,1000000,1000000
1000 @RNDL(128,128),00,1500000,1200000,1000000,1000000
```

```
230 HOME 60,95,0
240 FOR I=1 TO 20
250 H=I*INT(1000/100+1.40+0.001)
260 A=H*10
270 LINE(A,H)-(A+9,507),PSET,BP
280 FOR T=0 TO 200 STEP 10:LINE(T,107)-(T,0),PSET,NEXT
290 NEXT I
300 HOME 3,1:CLS:SCREEN 1,0
310 PLAY"LOADED"
320 @RNDL(128,128),4,4
330 @RNDL(128,128),4,4
340 @RNDL(128,128),4,4
350 IF @RNDL(128,128) THEN HOME 128,0:GOTO 0
360 GOTO 400
370 GOTO 400
380 @RNDL(128,128),4,4
390 @RNDL(128,128),4,4
400 @RNDL(128,128),4,4
410 @RNDL(128,128),4,4
420 @RNDL(128,128),4,4
430 @RNDL(128,128),4,4
440 @RNDL(128,128),4,4
450 @RNDL(128,128),4,4
460 @RNDL(128,128),4,4
470 @RNDL(128,128),4,4
480 @RNDL(128,128),4,4
490 @RNDL(128,128),4,4
500 @RNDL(128,128),4,4
510 @RNDL(128,128),4,4
520 @RNDL(128,128),4,4
530 @RNDL(128,128),4,4
540 @RNDL(128,128),4,4
550 @RNDL(128,128),4,4
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